That which is claimed is:

2	1. An ii	nformation management and synchronous communications system for
3	generating menus comprisi	ng:
4	a.	a central processing unit,
5 6	b.	a data storage device connected to said central processing unit,
7 8	c.	an operating system including a graphical user interface,
9	d.	a first menu stored on said data storage device,
10 11	е.	application software for generating a second menu from said first menu,
12	wherein the	application software facilitates the generation of the second menu by
13	allowing selection of item	as from the first menu, addition of items to the second menu and
14	assignment of parameters t	o items in the second menu using the graphical user interface of said
15	operating system and whe	rein data comprising the second menu is synchronized between the
16	data storage device connec	cted to the central processing unit and at least one other computing
17	device.	
18	2. An i	nformation management and synchronous communications system in
19	accordance with claim 1, w	therein the second menu is a restaurant menu.
20	3. An i	nformation management and synchronous communications system in
21	accordance with claim 1, v	wherein the second menu is capable of being displayed on the display
22	screen of a wireless compu	ting device.
23	4. An i	nformation management and synchronous communications system in
24	accordance with claim 3,	wherein selections from the second menu are capable of being
25	transmitted to a receiving c	omputer by wireless link.

	\cdot
1	5. An information management and synchronous communications system in
2	accordance with claim 1, wherein the second menu is capable of being displayed on display
3	screens of computers in a network.
4	6. An information management and synchronous communications system in
5	accordance with claim 5, wherein the computer network is the internet.
6	7. An information management and synchronous communications system in
7	accordance with claim 3, wherein selections from the second menu are capable of being
8	transmitted to a receiving computer via the internet.
9	8. An information management and synchronous communications system in
10	accordance with claim 1, wherein the second menu is created in conformity with hypertext
11	markup language or extensible markup language.
12	9. An information management and synchronous communications system in
13	accordance with claim 1, wherein the second menu overwrites the first menu.
14	10. The information management and synchronous communications system of
15	claim 1, wherein the first menu and the second menu are both capable of being displayed in the
16	same window on the display screen.
17	11. The information management and synchronous communications system of
18	claim 1, wherein the items comprising the second menu are a subset of the items comprising the
19	first menu.
20	12. An information management and synchronous communications system for
21	generating menus comprising:
22	a. a microprocessor,

a data and instruction input device,

a display device,

b.

c.

23

7

9

10

11

12

13

14

15

16

17

18

19

20

1 2 3 4	d.	a data storage device for storing information and instructions entered through said data and instruction input means or information generated by said microprocessor,
5	e.	an operating system,

- a master menu stored on said data storage device for f. generating a modified menu, and
- application software, 8 g.
 - wherein said microprocessor, operating system and application software are operative to display the master menu on the display device in response to instructions programmed into said microprocessor, operating system, application software and information and instructions entered through said data input device, and wherein said microprocessor, operating system and application software are operative to create the modified menu from said master menu in response to information and instructions entered through said data and instruction input device and wherein data comprising the modified menu is synchronized between the data storage device and at least one other computing device.
 - The information management and synchronous communications system of 13. claim 12, further comprising means for transferring the modified menu to a digital computing device.
 - The information management and synchronous communications system of 14. claim 13, wherein the digital computing device is a wireless handheld device.
- The information management and synchronous communications system of 15. 22 claim 12, further comprising means for downloading the modified menu to the internet or a Web 23 24 page.

1	16. The information management and synchronous communications system of
2	claim 15, further comprising means for converting the modified menu to hypertext markup
3	language or extensible markup language.
4	17. The information management and synchronous communications system of
5	claim 15, wherein the items comprising the modified menu are a subset of the items comprising
6	the master menu.
7	18. An information management and synchronous communications system in
8	accordance with claim 12, wherein said operating system includes a graphical user interface and
9	wherein said microprocessor, operating system and application software are operative to generate
10	the modified menu by facilitating selection of items from said master menu using the graphical
11	user interface of said operating system.
12	19. An information management and synchronous communications system in
13	accordance with claim 12, wherein said master menu is organized in a hierarchical tree structure
14	having branches comprising menu items and wherein the modified menu is at least partially
15	generated by selecting items from the branches of the tree structure.
16	
17	
18	20. In a computer system having an input device, a storage device, a video
19	display, an operating system including a graphical user interface and application software, an
20	information management and synchronous communications method comprising the steps of:
21	a. outputting at least one window on the video display;
22 23	b. outputting a first menu in a window on the video display;
24	c. displaying a cursor on the video display;

25

1 2		d.	selecting items from the first menu with the input device or the graphical user interface;
3 4 5		e.	inserting the items selected from the first menu into a second menu, the second menu being output in a window;
6 7 8		f.	optionally adding additional items not included in the first menu to the second menu using the input device or the graphical user interface;
9		g.	storing the second menu on the storage device; and
10	synch	ronizing	g the data comprising the second menu between the storage device
11	and at least one other	r data s	torage medium, wherein the other data storage medium is connected
12	to or is part of a diffe	erent co	mputing device.
13	21.	The n	nethod of claim 20, further comprising the step of transferring data or
14	instructions represen	itative o	f the second menu to a remote digital device or Web page.
15	22.	The n	nethod of claim 21, wherein said data or instructions representative
16	of the second menu	are trans	sferred by a wireless link.
17	23.	The	method of claim 20, wherein the selected items and optional
18	additional items are	inserted	d into a second menu which is displayed in the same window as the
19	first menu.		
20	24.	The r	nethod of claim 21, comprising the further steps of selecting at least
21	one item from the se	econd m	enu and transmitting at least one item selected to another computer.
22	25.	The 1	method of claim 24, wherein at least one item selected from the
23	second menu is tran	smitted	to another computer by wireless link or the internet.

remote digital device or Web page in page format.

26.

The method of claim 21, wherein the second menu is displayed on the

	1	
	2	n
	3	
	4	a
	5	
	6	
	7	u
	8 9 10	
	11 12 13	
£	14	
	15	
Rock limit of of the state that the	16 17	v
	18	1
	19	a
	20	Ċ

1	27.	The n	nethod of claim 20, wherein the second menu overwrites the first
2	menu.		
3	28.	The n	nethod of claim 20, wherein the items comprising the second menu
4	are a subset of the	items con	prising the first menu.
5			
6	29.	An info	ormation management and synchronous communications system for
7	use with wireless h	andheld o	computing devices and hospitality computing systems comprising:
8 9 10		a.	a central database containing hospitality applications and data,
11 12 13		b.	at least one wireless handheld computing device on which hospitality applications and data are stored or displayed,
14		c.	an application program interface, and
15		d.	a communications control module;
16 17	wherein application	ons or dat	ta are synchronized wirelessly between the central database and at
18	least one wireless	handheld	d computing device and wherein the applications program interface
19	and communication	ons contro	ol module establish a seamless link between the data in the central
20	database and the d	ata on the	wireless handheld computing device.
21	30.	The info	ormation management and synchronous communications system of
22	claim 29 wherein	the com	munications control module and the application program interface
23	enable the automa	ntic gener	ation of and updating of operator menus or screens on the handheld
24	computer based or	n data froi	n the central hospitality database.

1	31. The information management and synchronous communications system of
2	claim 30 wherein messaging formats are used which are in conformity with HTML or XML
3	messaging formats.
4 5	32. An information management and synchronous communications system for use
6	with wireless handheld computing devices and hospitality applications comprising:
7 8 9	 a. a central database containing hospitality applications and data,
10	b. at least one wireless computing device,
11	c. at least one wireless paging or beeper device,
12	d. an applications program interface, and
13	e. a communications control module;
14 15	wherein hospitality applications or data are synchronized between the central database, at least
16	one wireless computing device and at least one wireless paging or beeper device and wherein
17	messaging to the wireless paging or beeper device is enabled directly from the operator interface
18	of the wireless computing device.
19	33. An information management and synchronous communications system
20	comprising:
21	a. a central database containing applications and data,
22 23	b. a first computing device associated with the central database,
24 25	a second computing device associated with a second storage medium containing applications and data,
26	d. an applications program interface, and
27	e. a communications control module;

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

wherein applications or data are synchronized between the central database and the second storage medium and wherein the applications program interface and communications control module establish a seamless link between the data in the central database and the data on the second storage medium.

- 34. The information management and synchronous communications system of claim 33 wherein the communications control module and the applications program interface enable the automatic generation of and updating of operator menus or screens on the second computing device based on data from the central database.
- 35. The information management and synchronous communications system of claim 1 wherein the second menu is generated by manually selecting items from the first menu, adding items to the second menu or assigning parameters to items in the second menu.
- 36. The information management and synchronous communications system of claim 1 wherein the data is synchronized by digital transmission between the data storage device connected to the central processing unit and at least one other computing device.
- 37. The information management and synchronous communications system of claim 12 wherein the modified menu is generated by manually selecting items from the master menu.
- 38. The information management and synchronous communications system of claim 12 wherein the data is synchronized by digital transmission between the data storage device and at least one other computing device.
- 39. The computer system of claim 20 wherein the data is synchronized by digital transmission between the storage device and at least one other data storage medium.

40. The information management and synchronous communications system of
claim 29 wherein the applications or data are synchronized by digital data transmission betwee
the central database and at least one wireless handheld computing device.

- 41. The information management and synchronous communications system of claim 32 wherein the applications or data are synchronized by digital data transmission between the central database, at least one wireless computing device and at least one wireless paging or beeper device.
- 42. The information management and synchronous communication system of claim 29, 32, or 33 wherein the synchronized data relates to orders.
 - 43. The information management and synchronous communication system of claim 29, 32, or 33 wherein the synchronized data relates to waitlists
 - 44. The information management and synchronous communication system of claim 29, 32, or 33 wherein the synchronized data relates to reservations.
 - 45. The information management and synchronous communication system of claim 29 or 32 wherein the synchronized data is sent from at least one of the wireless computing devices to a receiver at a valet parking base station.
 - 46. The information management and synchronous communication system of claim 29 or 32 wherein the synchronized data is sent from at least one of the wireless computing devices to a wireless paging device.
- 20 47. The information management and synchronous communication system of 21 claim 33 wherein the synchronized data is sent from said second computing device to a receiver 22 at a valet parking base station.

48. The information management and synchronous communication system of)Í
claim 33 wherein the synchronized data is sent from said second computing device to a wireless	SS
paging device.	

- 49. The information management and synchronous communication system of claim 1 wherein said application software acts to facilitate generation of the second menu such that the second menu is appropriate for a specified time of day.
- 50. The information management and synchronous communication system of claim 1 wherein said application software further facilitates the generation of multiple menus, each of said multiple menus being appropriate for a particular time of day.
 - 51. The information management and synchronous communication system of claim 1 wherein the facilitation of second menu generation by said application software takes into account specified parameters, such that the second menu so generated includes items that satisfy the specified parameters.
 - 52. The information management and synchronous communication system of claim 51 wherein the second menu so generated further includes manually selected items.
 - 53. The information management and synchronous communication system of claim 1 wherein the second menu is applicable to table-based customer ordering.
- 54. The information management and synchronous communication system of claim 1 wherein the second menu is applicable to drive-through customer ordering.
- 55. The information management and synchronous communication system of claim 1 wherein the second menu is applicable to customer ordering via internet.
- 56. The information management and synchronous communication system of claim 1 wherein the second menu is applicable to customer ordering via telephone.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

- 57. The information management and synchronous communication system of claim 1 wherein the second menu is applicable to customer ordering via wireless device.
 - 58. The information management and synchronous communication system of claim 51 wherein said specified parameters involve recipe content.
 - 59. The information management and synchronous communication system of claim 12 wherein said microprocessor, operating system, and application software are further operative to create said modified menu such that the modified menu is appropriate for a specified time of day.
 - 60. The information management and synchronous communication system of claim 12 wherein said microprocessor, operating system, and application software are further operative to create multiple menus, each of said multiple menus being appropriate for a particular time of day.
 - 61. The information management and synchronous communication system of claim 12 wherein the creation of said modified menu by said microprocessor, operating system, and application software takes into account specified parameters, such that the modified menu so created includes items that satisfy the specified parameters.
 - 62. The information management and synchronous communication system of claim 61 wherein the modified menu so generated further includes manually selected items.
 - 63. The information management and synchronous communication system of claim 12 wherein the modified menu is applicable to table-based customer ordering.
- 64. The information management and synchronous communication system of claim 12 wherein the modified menu is applicable to drive-through customer ordering.

1	65. The information management and synchronous communication system of
2	claim 12 wherein the modified menu is applicable to customer ordering via internet.
3	66. The information management and synchronous communication system of
4	claim 12 wherein the modified menu is applicable to customer ordering via telephone.
5	67. The information management and synchronous communication system of
6	claim 12 wherein the modified menu is applicable to customer ordering via wireless device.
7	
8	68. The information management and synchronous communication system of
9	claim 61 wherein said specified parameters involve recipe content.
10	69. An information management and synchronous communications system for
11	generating and transmitting menus comprising:
12	a. a central processing unit,
13 14	 b. a data storage device connected to said central processing unit,
15 16	 c. an operating system including a graphical user interface,
17 18 19 20 21	d. a first menu consisting of menu categories, said menu categories consisting of menu items, said first menu stored on said data storage device and displayable in a window of said graphical user interface in a hierarchical tree format,
22 23 24	 e. a modifier menu stored on said data storage device and displayable in a window of said graphical user interface,
25 26 27	f. a sub-modifier menu stored on said data storage device and displayable in a window of said graphical user interface, and
28 29 30	g. application software for generating a second menu from said first menu and transmitting said second menu to a wireless handheld computing device or Web page,

1	wherein the application software facilitates the generation of the second menu by
2	allowing selection of categories and items from the first menu, addition of menu categories to the
3	second menu, addition of menu items to the second menu and assignment of parameters to items
4	in the second menu using the graphical user interface of said operating system, said parameters
5	being selected from the modifier and sub-modifier menus, wherein said second menu is
6	applicable to a predetermined type of ordering.
7	70. The system of claim 69 wherein the type of ordering is table-based customer
8	ordering.
9	71. The system of claim 69 wherein the type of ordering is drive-through
10	customer ordering.
11	72. The system of claim 69 wherein the type of ordering is customer ordering via
12	internet.
13	73. The system of claim 69 wherein the type of ordering is customer ordering via
14	telephone.
15	74. The system of claim 69 wherein the type of ordering is customer ordering via
16	wireless device.
17	75. An information management and synchronous communications system for
18	generating and transmitting menus comprising:
19	a. a central processing unit,
20	b. a data storage device connected to said central processing unit,
21	c. an operating system including a graphical user interface,

1	d. a first menu consisting of menu categories, said menu categories
2	consisting of menu items, said first menu stored on said data storage device and displayable in a
3	window of said graphical user interface in a hierarchical tree format,
4	e. a modifier menu stored on said data storage device and displayable
5	in a window of said graphical user interface,
6	f. a sub-modifier menu stored on said data storage device and
7	displayable in a window of said graphical user interface, and
8	g. application software for generating a second menu from said first
9	menu and transmitting said second menu to a wireless handheld computing device or Web page,
10	wherein the application software facilitates the generation of the second menu by
11	allowing selection of categories and items from the first menu, addition of menu categories to the
12	second menu, addition of menu items to the second menu and assignment of parameters to items
13	in the second menu using the graphical user interface of said operating system, said parameters
14	being selected from the modifier and sub-modifier menus, wherein said application software acts
15	to facilitate generation of the second menu such that the second menu is appropriate for a
16	specified time of day.
17	76. An information management and synchronous communications system for
18	generating and transmitting menus comprising:
19	a. a central processing unit,
20	b. a data storage device connected to said central processing unit,
21	c. an operating system including a graphical user interface,

1	d. a first menu consisting of menu categories, said menu categories
2	consisting of menu items, said first menu stored on said data storage device and displayable in a
3	window of said graphical user interface in a hierarchical tree format,
4	e. a modifier menu stored on said data storage device and displayable
5	in a window of said graphical user interface,
6	f. a sub-modifier menu stored on said data storage device and
7	displayable in a window of said graphical user interface, and
8	g. application software for generating a second menu from said first
9	menu and transmitting said second menu to a wireless handheld computing device or Web page,
10	wherein the application software facilitates the generation of the second menu by
11	allowing selection of categories and items from the first menu, addition of menu categories to the
12	second menu, addition of menu items to the second menu and assignment of parameters to items
13	in the second menu using the graphical user interface of said operating system, said parameters
14	being selected from the modifier and sub-modifier menus, wherein said application software
15	further facilitates the generation of multiple menus, each of said multiple menus being
16	appropriate for a particular time of day.
17	77. An information management and synchronous communications system for
18	generating and transmitting menus comprising:
19	a. a central processing unit,
20	b. a data storage device connected to said central processing unit,
21	c. an operating system including a graphical user interface,

1	d.	a first menu consisting of menu categories, said menu categories
2	consisting of menu items, sa	id first menu stored on said data storage device and displayable in a
3	window of said graphical use	er interface in a hierarchical tree format,
4	e.	a modifier menu stored on said data storage device and displayable
5	in a window of said graphica	al user interface,
6	f.	a sub-modifier menu stored on said data storage device and
7	displayable in a window of s	aid graphical user interface, and
8	g.	application software for generating a second menu from said first
9	menu and transmitting said s	second menu to a wireless handheld computing device or Web page,
10	wherein the a	application software facilitates the generation of the second menu by
11	allowing selection of catego	ries and items from the first menu, addition of menu categories to the
12	second menu, addition of m	enu items to the second menu and assignment of parameters to items
13	in the second menu using the	ne graphical user interface of said operating system, said parameters
14	being selected from the me	odifier and sub-modifier menus, wherein the facilitation of second
15	menu generation by said ap	plication software takes into account specified parameters, such that
16	the second menu so generate	ed includes items that satisfy the specified parameters.
17	78. The info	ormation management and synchronous communication system of
18	claim 77 wherein said speci	fied parameters involve recipe content.
19		
20	79. An ir	nformation management and synchronous communications system for
21	use with wireless handheld	computing devices and the internet comprising:

a. a central database containing hospitality applications and data,

l	b. a	t least one wireless nandneid computing device on which hospitality
2	a	pplications and data are stored,
3	c. a	t least one Web server on which hospitality applications and data are
4	s	tored,
5	d. a	t least one Web page on which hospitality applications and data are
6	s	tored,
7	e. a	n application program interface, and
8	f. a	communications control module,
9	wherein app	olications and data are synchronized between the central data base, at
10	least one wireless handhel	d computing device, at least one Web server and at least one Web
11	page; wherein the applicati	ion program interface enables integration of outside applications with
12	the hospitality application	s and wherein the communications control module is an interface
13	between the hospitality a	applications and any other communications protocol, wherein the
14	synchronized data relates to	o orders.
15	80. An i	nformation management and synchronous communications system for
16	use with wireless handheld	computing devices and the internet comprising:
17	a.	a central database containing hospitality applications and data,
18	b.	at least one wireless handheld computing device on which
19	hospitality applications and	d data are stored,
20	c.	at least one Web server on which hospitality applications and data
21	are stored,	
22	d.	at least one Web page on which hospitality applications and data
23	are stored	

1	e. an application program interface, and
2	f. a communications control module,
3	wherein applications and data are synchronized between the central data base, at
4	least one wireless handheld computing device, at least one Web server and at least one Web
5	page; wherein the application program interface enables integration of outside applications with
6	the hospitality applications and wherein the communications control module is an interface
7	between the hospitality applications and any other communications protocol, wherein the
8	synchronized data relates to waitlists.
9	81. An information management and synchronous communications system for
10	use with wireless handheld computing devices and the internet comprising:
11	a. a central database containing hospitality applications and data,
12	b. at least one wireless handheld computing device on which
13	hospitality applications and data are stored,
14	c. at least one Web server on which hospitality applications and data
15	are stored,
16	d. at least one Web page on which hospitality applications and data
17	are stored,
18	e. an application program interface, and
19	f. a communications control module,
20	wherein applications and data are synchronized between the central data base, at
21	least one wireless handheld computing device, at least one Web server and at least one Web
22	page; wherein the application program interface enables integration of outside applications with
23	the hospitality applications and wherein the communications control module is an interface

1	between the hospitality applications and any other communications protocol, wherein the	
2	synchronized data relates to reservations.	
3	82. The information management and synchronous communication system of	
4	claim 79, 80, or 81 wherein the data is sent to a receiver at a valet parking base station.	
5	83. The information management and synchronous communication system of	
6	claim 79, 80, or 81 wherein the data is sent to a wireless paging device.	
7	84. The method of claim 20 wherein said application software acts to facilitate	
8	generation of the second menu such that the second menu is appropriate for a specified time of	
9	day.	
10	85. The method of claim 20 wherein said application software facilitates the	
11	generation of multiple menus, each of said multiple menus being appropriate for a particular	
12	time of day.	
13	86. The method of claim 20 wherein said application software acts to facilitate	
14	generation of the second menu, the taking into account specified parameters such that the second	
15	menu so generated includes items that satisfy the specified parameters.	
16	87. The method of claim 86 wherein the second menu so generated further	
17	includes manually selected items.	
18	88. The method of claim 20 wherein the second menu is applicable to table-based	
19	customer ordering.	
20	89. The method of claim 20 wherein the second menu is applicable to drive	
21	through customer ordering.	
22	90. The method of claim 20 wherein the second menu is applicable to customer	

ordering via internet.

- 91. The method of claim 20 wherein the second menu is applicable to customer ordering via telephone.
- 3 92. The method of claim 20 wherein the second menu is applicable to customer
- 4 ordering via wireless device.